Hydrologic Model Manager

Short Name	SAMS
Long Name	Stochastic Analysis, Modeling and Simulation 2000
Description	Performs statistical analysis on hydrologic data (primarily streamflow) and generates stochastically based traces. Graphical capabilities are available for analysis and comparisons.
Model Type	Generally applicable, surface water, reservoir operations, planning studies.
Model Objectives	
Agency Office	Bureau of Reclamation Technical Service Center, PO Box Mail Code D-8510, 25007, Lakewood, CO 80225
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Model Structure	
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	
Spatial Scale	Flexible – Consistent with physical locations of existing gaging stations used in the analysis.
Temporal Scale	Primarily monthly – depending on number of stations and length of record, shorter time intervals may be modeled if desirable.
Input Requirements	Hydrologic data for all locations to be analyzed.
Computer Requirements	Windows 98, NT, or SUN Workstation.
Model Output	Stochastically generated hydrologic data in graphical and numerical form. Data generated will be consistent with data inputted in terms of temporal and spatial distribution. Generated traces may be of any length and number.
Parameter Estimatn Model Calibrtn	

Model Testing Verification	
Model Sensitivity	
Model Reliabiity	Good reliability.
Model Application	
Documentation	Excellent documentation available. Web based support not presently available, but may be in the future.
Other Comments	Strengths: Flexibility, adaptable to most river systems, at the cutting edge of stochastic hydrology technology. Weaknesses:Difficulty in dealing with intermittent streams which are dry for extended periods of time, occasional bugs in the code are noted. Skills required: A background in stochastic hydrology is helpful, but not necessarily required. Knowledge of programming language or databases is not important. Training opportunities: Training classes will be offered periodically – subject to the level of outside interest. A modest tuition fee will be charged.
Date of Submission	5/8/2000 9:31:48 AM
Developer	
Technical Contact	
Contact Organization	